CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.10/GVG/CSR.1/738/CEMENT/2014-15 Date: 20.01.2015

TEST REPORT ON CEMENT

* CUSTOMER	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
*AGENCY	:	**Mr. G. Venkatesh Gowda,** No. 53/1, 14th 'A' Cross, 'A' Sector, Yelahanka New Town, Bangalore – 64.
*NAME OF THE WORK	:	Improvements to Roads and Drains at BEL 2nd Block 5th Cross Road Right Side in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division, BBMP, Bangalore.
REFERENCE	:	AEE/BBMP/VSD/PR/599/2/2014-15 Dated: 17.01.2015
SAMPLE ID	:	Cement – (Sample – 1)
SAMPLE RECEIVED ON	:	17.01.2015
PERIOD OF TESTING	:	17.01.2015 to 20.01.2015

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	28.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	160 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	495 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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AE-10

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Job No.: CTCE/BBMP/W.No.10/GVG/CSR.1/738/SAND-Gradation/2014-15 : 20.01.2015

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. G. Venkate. Gowda,**
No. 53/1, 14th 'A' Cross, 'A' Sector, Yelahanka New Town,
Bangalore – 64.

*** Name of Work** : Improvements to Roads and Drains at BEL 2nd Block 5th Cross Road Right Side in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : AEE/BBMP/VSD/PR/599/2/2014-15 Dated: 17.01.2015

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates – (Sample – 1)

Sample Received on : 17.01.2015

Date of Testing : 20.01.2015

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	95.74	90-100	90-100	90-100	95-100
2.36	85.46	60-95	75-100	85-100	95-100
1.18	59.99	30-70	55-90	75-100	90-100
600 Micron	28.74	15-34	35-59	60-79	80-100
300 Micron	15.45	5-20	8-30	12-40	15-50
150 Micron	6.20	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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T-2377

Job No.: CTCE/BBMP/W.No.10/GVG/CSR.1/738/AGG/GR/2014-15 : 20.01.2015

TEST REPORT ON COARSE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	: **Mr. G. Venkatesh Gowda,** No. 53/1, 14th 'A' Cross, 'A' Sector, Yelahanka New Town, Bangalore – 64.
* Name of Work	: Improvements to Roads and Drains at BEL 2nd Block 5th Cross Road Right Side in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	: AEE/BBMP/VSD/PR/599/2/2014-15 Dated: 17.01.2015
Technical Reference	: IS : 2386 Part 1 -1963 RA-2007
Sample ID	: Coarse Aggregates (40mm) – (Sample – 1)
Sample Received on	: 17.01.2015
Date of Testing	: 20.01.2015

Total Wt. of Aggregates in gms= **10000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	96.15	95-100	85-100
20	50.89	30-70	0-20
10	23.92	10-35	0-5
4.75	2.60	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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Job No.: CTCE/BBMP/W.No.10/GVG/CSR.1/738/AGG/GR/2014-15 : 20.01.2015

TEST REPORT ON COARSE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	: **Mr. G. Venkate Gowda,** No. 53/1, 14th 'A' Cross, 'A' Sector, Yelahanka New Town, Bangalore – 64.
* Name of Work	: Improvements to Roads and Drains at BEL 2nd Block 5th Cross Road Right Side in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	: AEE/BBMP/VSD/PR/599/2/2014-15 Dated: 17.01.2015
Technical Reference	: IS : 2386 Part 1 -1963 RA-2007
Sample ID	: Coarse Aggregates (20mm) – (Sample – 1)
Sample Received on	: 17.01.2015
Date of Testing	: 20.01.2015

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS :383-1970 (RA- 2007)	
		Graded	Single Sized
40	100	100	100
20	96.16	95-100	85-100
10	37.26	25-55	0-20
4.75	5.80	0-10	0-5

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits

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Job No.: CTCE/BBMP/W.No.10/GVG/STEEL/2014-15 21.01.2015

TEST REPORT ON REINFORCEMENT STEEL

Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	:	**Mr. G. Venkate Gowda,** No. 53/1, 14th 'A' Cross, 'A' Sector, Yelahanka New Town, Bangalore – 64.
Name of the work	:	Improvements to Roads and Drains at BEL 2nd Block 5th Cross Road Right Side in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	:	AEE/BBMP/VSD/PR/599/2/2014-15 Dated: 17.01.2015
Date of Test	:	21.01.2015
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	8	0.40	510	552	13.25	O.K	O.K

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Job No.: CTCE/BBMP/W.No.10/GVG/STEEL/2014-15 21.01.2015

TEST REPORT ON REINFORCEMENT STEEL

Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	:	**Mr. G. Venkate. Gowda,** No. 53/1, 14th 'A' Cross, 'A' Sector, Yelahanka New Town, Bangalore – 64.
Name of the work	:	Improvements to Roads and Drains at BEL 2nd Block 5th Cross Road Right Side in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	:	AEE/BBMP/VSD/PR/599/2/2014-15 Dated: 17.01.2015
Date of Test	:	21.01.2015
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	10	0.62	513	556	13.50	O.K	O.K

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Job No.: CTCE/BBMP/W.No.10/GVG/CSR.1/738/CUBE/2014-15 21.02.2015

TEST REPORT ON CONCRETE CUBES

* Client	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	: **Mr. G. Venkate Gowda,** No. 53/1, 14th 'A' Cross, 'A' Sector, Yelahanka New Town, Bangalore – 64.
* Name of the work	: Improvements to Roads and Drains at BEL 2nd Block 5th Cross Road Right Side in Ward No.10 (Doddabommasandra), Vidyaranyapura Sub Division, BBMP, Bangalore.
* Reference	: AEE/BBMP/VSD/PR/599/2/2014-15 Dated: 17.01.2015
* Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{20}
Compressive Strength as o	: 28^{th} day
Sample Received on	: 24.01.2015

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.01.2015	21.02.2015	8.256	492.8	21.90
2	24.01.2015	21.02.2015	8.378	504.7	22.43
3	24.01.2015	21.02.2015	8.492	516.5	22.96

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